

STATEMENT OF BASIS (AI No. 33526)

for draft Louisiana Pollutant Discharge Elimination System permit No. LA0117773 to discharge to waters of the State of Louisiana.

THE APPLICANT IS: Fluker's Cricket Farm, Inc.
Fluker Farm
1333 Plantation Avenue
Port Allen, LA 70767

ISSUING OFFICE: Louisiana Department of Environmental Quality (LDEQ)
Office of Environmental Services
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

PREPARED BY: Ronda Burtch

DATE PREPARED: December 2, 2009

1. PERMIT STATUS

A. Reason for Permit Action:

Permit reissuance of a Louisiana Pollutant Discharge Elimination System (LPDES) permit for a 5-year term

B. NPDES permit – NPDES permit effective date: N/A
NPDES permit expiration date: N/A
EPA has not retained enforcement authority.

C. LPDES permit – LA0117773
LPDES permit effective date: February 1, 2004
LPDES permit expiration date: January 31, 2009

D. Date Application Received: November 5, 2009

2. FACILITY INFORMATION

A. FACILITY TYPE/ACTIVITY – cricket and mealworm breeding farm

The facility operations mainly consist of cricket and mealworm breeding. The cricket and mealworm production areas incorporate much of the facility's square footage. The other parts of the facility include various animal care equipment such as lamps for aquariums, soaps and detergents for cleaning and novelty items sold to retail stores. These items are sold wholesale to retail animal supply stores or to individual buyers through the internet.

B. FEE RATE

1. Fee Rating Facility Type: minor
2. Complexity Type: I
3. Wastewater Type: III
4. SIC code: 0279

C. LOCATION - 1333 Plantation Avenue in Port Allen, West Baton Rouge Parish
Latitude 30° 28' 50", Longitude 91° 14' 58"

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3. OUTFALL INFORMATION

Outfall 001

Discharge Type: sanitary wastewater
Treatment: sewage treatment plant with chlorine disinfection
Location: at the point of discharge from the sewage treatment plant, prior to mixing with other waters
Flow: 720 GPD
Discharge Route: local drainage, thence into Bayou Choctaw

Outfall 002

Discharge Type: cricket and mealworm breeding tray washwater
Treatment: none
Location: at the point of discharge from the cement slab, where the breeding trays are washed, prior to mixing with other waters
Flow: 720 GPD
Discharge Route: local drainage, thence into Bayou Choctaw

4. RECEIVING WATERS

STREAM - local drainage, thence into Bayou Choctaw

BASIN AND SEGMENT - Terrebonne Basin, Segment 120103

DESIGNATED USES - a. primary contact recreation
b. secondary contact recreation
c. propagation of fish and wildlife

5. TMDL STATUS

Subsegment 120103, Bayou Choctaw-From Bayou Poydras to Bayou Grosse Tete, is not listed on LDEQ's Final 2006 303(d) list as impaired. However, subsegment 120103 was previously listed as impaired for organic enrichment/low DO, for which the below TMDL's have been developed. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional TMDL's and/or water quality studies. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as necessary to achieve compliance with water quality standards.

The following TMDL's have been established for subsegment 120103:

TMDLs for Dissolved Oxygen and Nutrients in Selected Subsegments in the Upper Terrebonne Basin, Louisiana

Per the TMDL only two facilities (Alma Plantation and Ashland Plantation) required a change in dissolved oxygen limitations. This facility is listed in the TMDL, but no reduction of the BOD₅ limitation was required. Therefore, BOD₅ will remain as previously permitted for this facility

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6. CHANGES FROM PREVIOUS PERMIT

1. Monthly average limitations for Flow, BOD₅, TSS, and Fecal Coliform have been added to Outfall 001.
2. Weekly average limitations for Outfall 001 have been changed to daily maximum limitations.

7. COMPLIANCE HISTORY/COMMENTS

- A. OEC – There have been no compliance orders administered against this facility. There have been no inspections performed at this facility since December 14, 2004.
- B. DMR Review: A review of the DMRs for the period of October 1, 2007 through September 30, 2009 revealed no excursions. However, there are no DMRs on file for the period of January 1, 2007 through September 30, 2008.
 - Please note that this facility was referred to enforcement on December 2, 2009 and to surveillance on December 15, 2009.

8. EXISTING EFFLUENT LIMITS

Outfall 001 – treated sanitary wastewater

Pollutant	Limitation		Monitoring Frequency	Reference
	Monthly Avg	Weekly Avg		
	mg/L			
Flow (MGD)	---	Report	1/6 months	LAG480000, Schedule A
BOD ₅	---	45	1/6 months	LAG480000, Schedule A
TSS	---	45	1/6 months	LAG480000, Schedule A
Fecal Coliform (col/100 ml)	---	400	1/6 months	LAG480000, Schedule A
pH, s.u.	6.0 (min)	9.0 (max)	1/6 months	LAG480000, Schedule A

Outfall 002 – cricket and mealworm breeding tray washwater

Pollutant	Limitation		Monitoring Frequency	Reference
	Monthly Avg	Daily Max		
	mg/L			
Flow (MGD)	Report	Report	Quarterly	LAC 33:IX.2361.I.1.b
BOD ₅	---	45	Quarterly	BPJ
TSS	---	45	Quarterly	BPJ
pH, s.u.	6.0 (min)	9.0 (max)	Quarterly	BPJ

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9. ENDANGERED SPECIES

The receiving waterbody, Subsegment 120103 of the Terrebonne Basin is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated November 17, 2008 from Rieck (FWS) to Nolan (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat. Therefore, the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat.

10. HISTORIC SITES

The discharge is from an existing facility location, which does not include an expansion on undisturbed soils. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the "Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required.

11. TENTATIVE DETERMINATION

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to issue a permit for the discharge described in the application.

12. PUBLIC NOTICES

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

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Rationale for Fluker's Cricket Farm, Inc.

1. **Outfall 001 - sanitary wastewater (estimated flow is 720 GPD)**

Pollutant	Limitation		Reference
	Monthly Avg	Daily Max	
	mg/L		
Flow (MGD)	Report	Report	LAC33:IX.2707.1.1.b
BOD ₅	30	45	Similar discharges* (BPJ), LAG530000
TSS	30	45	Similar discharges* (BPJ), LAG530000
Fecal Coliform (col/100 ml)	200	400	Similar discharges* (BPJ), LAG530000
pH, s.u.	6.0 (min)	9.0 (max)	Similar discharges* (BPJ), LAG530000

Treatment: sewage treatment plant with chlorination

Monitoring Frequency: Semiannually at the point of discharge from the package treatment plant

Limits Justification: Limits and monitoring frequencies are based on current guidance for similar discharges from other industrial facilities and the Class I Sanitary Discharge General Permit, LAG530000 effective December 1, 2007.

3. **Outfall 002 – cricket and mealworm breeding tray washwater (estimated flow is 720 GPD)**

Pollutant	Limitation		Reference
	Monthly Avg	Daily Max	
	mg/L		
Flow (MGD)	Report	Report	LAC33:IX.2707.1.1.b
BOD ₅	---	45	BPJ; Previous Permit
TSS	---	45	BPJ; Previous Permit
pH, s.u.	6.0 (min)	9.0 (max)	BPJ; Previous Permit

Treatment: none

Monitoring Frequency: Quarterly at the point of discharge from the cement slab, where the breeding trays are washed

Limits Justification: Limits are based on Best Professional Judgement (BPJ). The washwater is generated from rinsing cricket and mealworm breeding trays. The crickets are bred in corn meal and the mealworms are bred in wheat germ. Periodically, the facility has to replace the old corn meal and wheat germ with fresh corn meal and wheat germ. The breeding trays are emptied and the old corn meal and wheat germ, which contains cricket or mealworm waste, is sold to pig farmers to feed pigs. The emptied breeding trays are then rinsed out. The breeding trays are expected to contain residue of the corn meal and wheat germ, and minimal amounts of cricket and mealworm waste.

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- Existing permits for similar outfalls
- BPJ Best Professional Judgement
- s.u. Standard Units

NOTE

For outfalls containing concentration limits, the usage of concentration limits is based on BPJ for similar outfalls since the flow is variable and estimated.













STORM WATER POLLUTION PREVENTION PLAN (SWP3) REQUIREMENT

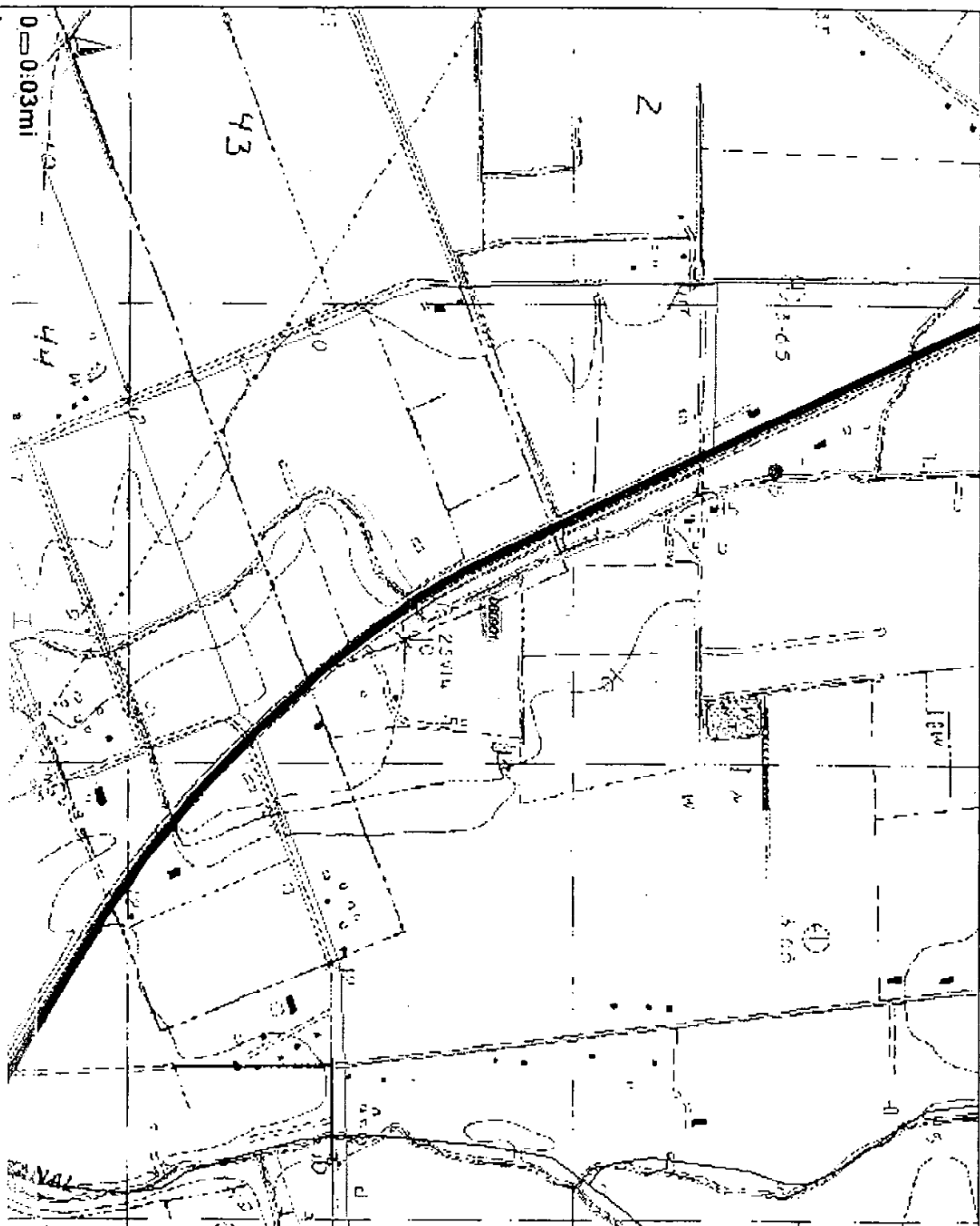
As per LAC 33:IX.2511.B.14.a-k, storm water discharges from facilities classified as SIC code 0279 are not considered to be associated with industrial activities. Therefore, and SWP3 is not included in the permit.

A No Exposure Certification was received by the Department on November 5, 2009.

LDEQ Interactive Mapping



-  USGS GNIS WATER
-  GDT ROADS
-  LDOTD INTERSTATES 1995
-  USGS DLG TERTIARY
-  ESRI GDT STREAMS
-  USGS DLG PERENNIAL
-  USGS DLG INTERMITTENT
-  LDEQ Lakes 1999
-  LDEQ SUBSEGMENTS 2006
-  LDOTD PARISHES
-  LDOTD LA BOUNDARY
-  State DRG 1:24k



November 22, 2009

LDEQ Disclaimer:

The Louisiana Department of Environmental Quality (LDEQ) has made every reasonable effort to ensure quality and accuracy in producing this map or data set. Nevertheless, the user should be aware that the information on which it is based may have come from any of a variety of sources, which are of varying degrees of map accuracy. Therefore, LDEQ cannot guarantee the accuracy of this map or data set, and does not accept any responsibility for the consequences of its use. Source: LDEQ GIS Center Make-A-Map (<http://map.ldeq.org>)

